Sonoma Valley County Sanitation District

Proposed Sewer Ordinance Amendment









Tonight's Agenda

- What is the problem and how can we fix it?
- What is a sewer lateral?
- What is Infiltration and Inflow (I/I)
- Correlation Between Rainfall & I/I
- Property Owner's Responsibilities
- What is the Proposed Ordinance Amendment?
- How will the of Amendment help?
- Inspection & Repair Program
- Estimated Repair Costs

The problem & a proposed solution

PROBLEM:

- Inflow and infiltration contribute to sanitary sewer overflows
- Overflows pollute local creeks



- Result in costly fines to the District's ratepayers
- Last year the District paid a \$732,000 fine for a series of sanitary sewer overflows

The problem & a proposed solution

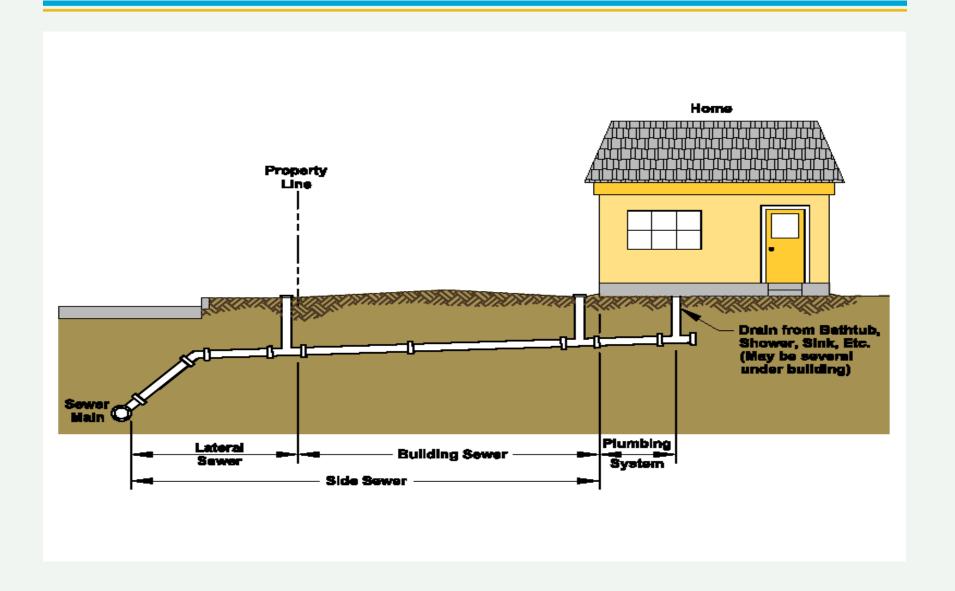
PROPOSED SOLUTION:

 Inspect private sewer laterals and require repairs if needed to reduce I/I





Sewer Layout



What is Inflow?

- Surface water that enters the system through improper connections
 - Roof drain connection
 - Uncapped cleanout
 - Storm sewer cross-connection
 - Faulty manhole covering
 - Connected foundation drain



Infiltration

Groundwater that enters through breaks

and leaks in the pipe

- Broken house lateral
- Root intrusion
- Deteriorated manhole
- Cracked or broken pipe

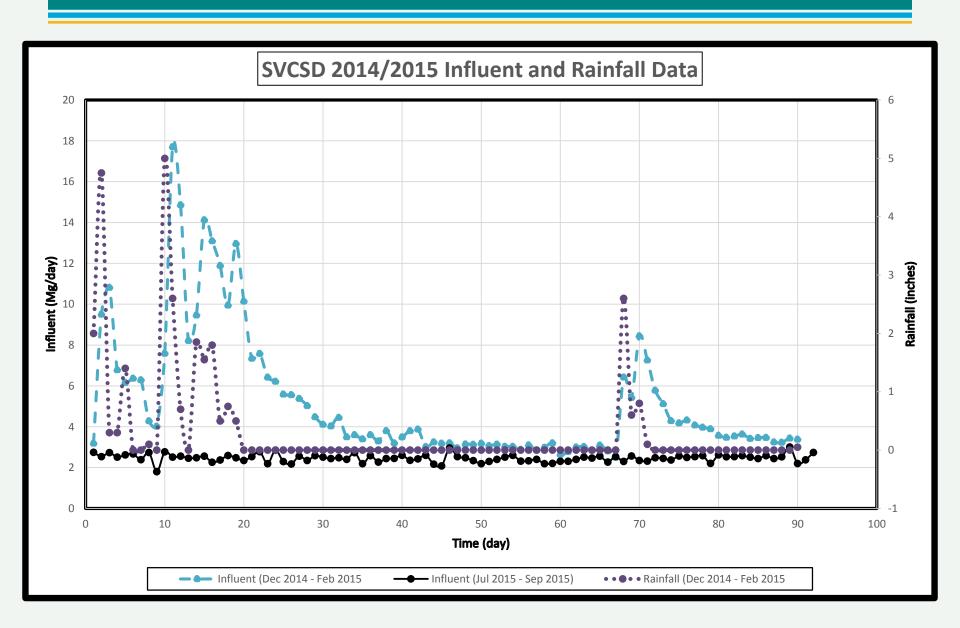


Correlation between Rainfall and I/I

 The highest amounts of inflow and infiltration occur during the wet season, especially during heavy rains

- This results in:
 - Sanitary Sewer Overflows
 - Increased cost for wastewater conveyance and treatment
 - Damage to private property

Sonoma Valley CSD 2014 to 2015

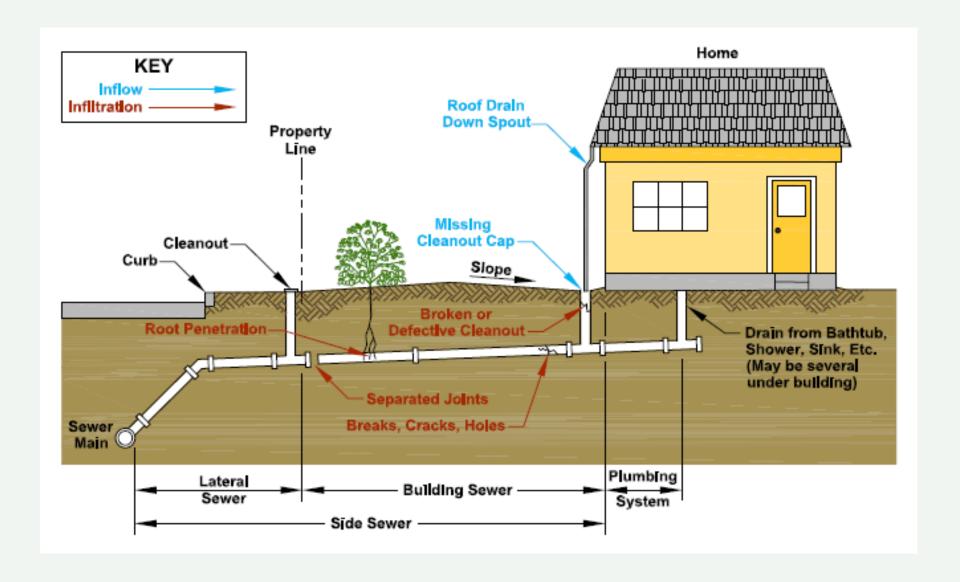


<u>User Responsibilities Sanitation Code 3.22</u>

Property owners are responsible for maintenance of their private sewer lateral, including:

- Installation and connection
- Cleaning and clearing
- Maintained to be free from roots, grease deposits, and other deposits which may impede the flow or obstruct the transmission of waste
- Joints maintained in good condition

Potential Side Sewer Problems



Purpose of Ordinance Amendment

- Reduce inflow and infiltration (I/I)
- Prevent sanitary sewer overflow and reduce influent into treatment plant
- Requirement of settlement agreement with Regional Water Quality Control Board
- Requirement of River Watch lawsuit

Bay Area Sanitation Districts with Sewer Lateral Ordinances

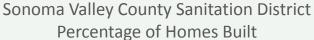
Agency	Point of Sale	Remodeling	Projects	Additional/Change in Plumbing Fixtures	Meter size	Determination of City/Agency	Change of use of house	Age Sensitive
Tiburon and Belvedere	X	X	Х					
Ross Valley	X	X						
City of Pacifica	Х	Х		х	Х			
City of Hercules	Х	х		х		Х	x	
Tamalpais	Х	х				Х		
Mill Valley	Х	х	х	х		х		
Oakland (EBMUD)	Х	х			Х			
Burlingame	Х			х				
City of Berkeley	Х	х				Х		
City of Richmond	Х	х		х		Х		
City of Belmont		х			Х			
City of Millbrae	Х							
Stege Sanitary District	х	х			х			
San Bruno	X							x
Pinole	X			x		X	x	х
Graton Community Services District	Х							
Ukiah	X							

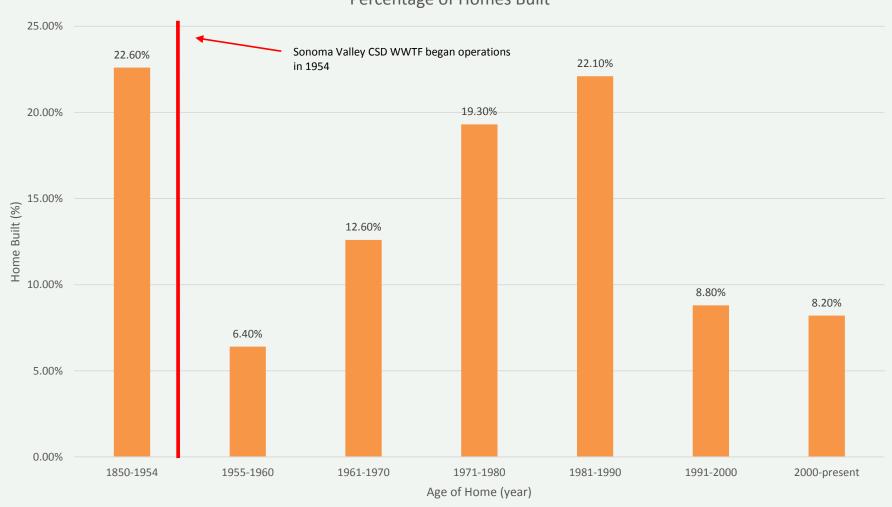
Potential Triggers for Sewer Lateral Testing

The District is considering potential conditions that would require a sewer lateral to be tested:

- May require inspection of any side sewer (building sewer and lateral sewer) that is 30 years old or older
- District may require testing if:
 - It is necessary for the protection of public health, safety, or welfare
 - A sewer lateral has known problems
 - There is a higher-than-average wastewater flow in a neighborhood or area

Housing Stock Age in Sonoma Valley





Inspection & Repair Program

- Identify neighborhoods upstream of overflows
- Plumbing contractor performs inspections
- Inspections paid for by District
- District notifies landowner of need for lateral repair or replacement

Inspection & Repair Program

- Repair cost borne by landowner
- District will provide up to \$1,000 rebate for the associated costs (on a limited basis)
- Landowner will be able to participate in the District's direct installation water conservation program
- Loan program may be available to assist in the repair cost

Estimated Inspection and Repair Costs

Inspection						
	Air Testing		Video		Hydrostatic Testing	
	Min	Max	Min	Max	Х	
Repair cost	\$270	\$800	\$225	\$300	\$350	
Average Cost \$554		\$263		\$350		

Repair/Replacement								
	Spot Repair		Lining	Pipe Bursting		Trenching		
	Min	Max		Min	Max	Min	Max	
Repair cost	\$800	\$2,500	\$7,500	\$5,000	\$6,750	\$2,500	\$6,750	
Average Cost	\$1,650		\$7,500	\$4,600		\$4,600		

Conclusion

The proposed ordinance amendment will:

- Reduce inflow and infiltration (I/I)
- Prevent sanitary sewer overflow (SSOs)
- Reduce influent into treatment plant

Contact Information

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